





APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/910,697	07/20/2001	Mark B. Lyles	068986.0109	2539
7	590 07/30/2003			
Baker Botts L.L.P.			EXAMINER	
One Shell Plaza 901 Louisiana	a		OWENS JR, HOWARD V	
Houston, TX 77002-4995			ART UNIT	PAPER NUMBER
			1623	
			DATE MAILED: 07/30/2003	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application N .	Applicant(s)			
	09/910,697	LYLES, MARK B.			
Offic Action Summary	Examin r	Art Unit			
_	Howard V Owens	1623			
The MAILING DATE of this communication app		<u></u>			
Peri d for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status 1) 57 - Decreasing to company instinct (a) filled on 20 March 2002					
 1) Responsive to communication(s) filed on 26 M 2a) This action is FINAL. 2b) This 	s action is non-final.				
, _		prosecution as to the merits is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>1-19 and 26-28</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-19</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accep	•				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.	5) Notice of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Response to Restriction Requirement

The election of species requirement set forth in the restriction/election mailed on 3/26/2003 is withdrawn in view of applicant's amendment to the claims limiting the charged material to xanthine.

Specification

An application in which the benefits of an earlier application are desired must contain a specific reference to the prior application(s) in the first sentence of the specification of in an application data sheet (37 CFR 1.78(a)(2) and (a)(5)) with the current status of the priority application indicated.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-18 are rejected under 35 U.S.C. § 102(b) as being anticipated by Padhye et al., U.S. Patent No. 5,808,041.

Claims 1-5, are drawn to a material consisting essentially of silica and nucleic acids covalently bonded to the silica.

Claims 9 and 18 are drawn to the silica being pure silicon dioxide (silica).

Claims 10-14 are drawn to DNA as the nucleic acid and forms of the material, particularly a bead, array of fibers or a flat surface.

Claims 6-8 and 15-17 are drawn to the material with varying percentages of silicon dioxide, particularly 80%, 90% or 95%.

Padhye anticipates the claims as it teaches a material for purifying nucleic acids (DNA or RNA) which consists of silica (crystalline powder) wherein the silica may be in the form of a bead (see column 4, lines 22-35) or microfibers (col. 5, lines 35-39) or a membrane, which constitutes a flat surface (col.7, lines 9-15). Padhye also teaches that the composition ratio of silica to glass may vary from 1:1 to 100:1, which encompasses the claimed composition ratios of 80%, 90% or 95% as well as pure silicon dioxide.

Allowable Subject Matter

The use of the xanthine compound in the bonding material for the nucleic acids appears to be an unobvious improvement over the closest prior art of record, U.S. 5,808,041.

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Howard V. Owens Patent Examiner Art Unit 1623

James O. Wilson

Supervisory Patent Examiner Technology Center 1600

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Howard Owens whose telephone number is (703) 306-4538. The examiner can normally be reached on Mon.-Fri. from 8:30 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the Supervisory Patent Examiner signing this action, James O. Wilson can be reached on (703) 308-4624. The fax phone number for this Group is (703) 308-4556.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1235.

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